

Customer No. 24498
Attorney Docket No. PD020080
Final Office Action Date: June 18, 2009

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of the Claims

1. (currently amended) Method for synchronizing a micro controller using subcode time codes and a data processing system using sector addresses of data contained on a recording medium ~~for the communication between a data processing system and a micro controller~~, comprising the steps of:

- sending, by the micro controller, one or more a number of sectors from the micro controller to the data processing system;
 - requesting, by the micro controller, information about the sector headers of the received sectors received by the data processing system from the data processing system, the information about the sector headers including at least a sector address; and
 - calculating, by the micro controller, the a difference between the subcode time codes and the sector addresses using the information about the sector headers, the micro controller taking the calculated difference into account when the micro controller requests to read data of a specified time from the recording medium; and
- ~~wherein it further comprises the step of repeating the synchronisation steps for different sessions recorded on the same recording medium.~~

2. (currently amended) Method according to claim 1, further comprising the steps of:

- asking, by the micro controller, the data processing system for a confirmation of sector reception; and
- implementing checking, using a continuity counter in the data processing system, to check if the expected sectors were received,

3. (currently amended) Method according to claim 1, further comprising the step of storing, during the sending the one or more sectors from the micro controller to the data processing system, the one or more sectors in a memory.

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4. (currently amended) Method according to claim 1, wherein absolute time information conveyed in the sector headers and in absolute time fields of ~~the a~~ q-channel of the subcode frame is used for calculating the difference between the subcode time codes and the sector addresses.

5. cancelled

6. cancelled

7. (currently amended) Apparatus for ~~synchronizing reading from and/or writing to recording media, with a micro controller using subcode time codes and a data processing system using sector addresses of data contained on a recording medium for the communication between a data processing system and a micro controller,~~ comprising:
means for sending ~~a number of one or more~~ sectors from the micro controller to the data processing system;
means for requesting information about the sector headers of the ~~received sectors received by the data processing system from the data processing system, the information about the sector headers including at least a sector address; and~~
means for calculating the difference between the subcode time codes and the sector addresses using the information about the sector headers;
means for taking the calculated difference into account when the micro controller requests to read data of a specified time from the recording medium; and
~~-wherein the calculating comprises the repeating the apparatus repeats~~ synchronisation steps for different sessions recorded on the same recording medium.

8. (New) A system for reading and/or writing data contained on a recording medium having one or more sessions, comprising:

a micro controller, coupled to the recording medium, that references the data using subcode time codes;

a data processing system, coupled to the micro controller, that references the data using a sector address, each sector address is contained in a sector header;

wherein, for each session on the recording medium, the micro controller

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transmits one or more sectors to the data processing system,
obtains, from the data processing system, sector headers corresponding to the transmitted sectors,
calculates a difference between the subcode time codes and the sector addresses included in the sector headers received from the data processing system, and
uses the difference to access data from the recording medium for a specified time.

9. (New). The system of claim 8,
the data processing system further comprises a continuity counter that counts each sector received from the micro controller,
wherein the data processing system transmits to the micro controller a confirmation acknowledging receipt of the transmitted sectors.
10. (New). The system of claim 8,
a memory, coupled to the micro controller and the data processing system,
wherein the micro controller stores the transmitted sectors in the memory.
11. (New). The system of claim 8,
wherein, for each session on the recording medium, the data processing system,
receives one or more sectors from the micro controller, and
transmits, to the micro controller, sector headers corresponding to the received sectors.
12. (New). The system of claim 8,
wherein each sector header has absolute time information,
wherein each subcode time code is associated with absolute time fields of a q-channel of a subcode frame, and
wherein the micro controller calculates the difference between the subtime codes and the sector header using the absolute time information in the sector headers and in the absolute time fields.